

NASA

National
Aeronautics and
Space
Administration

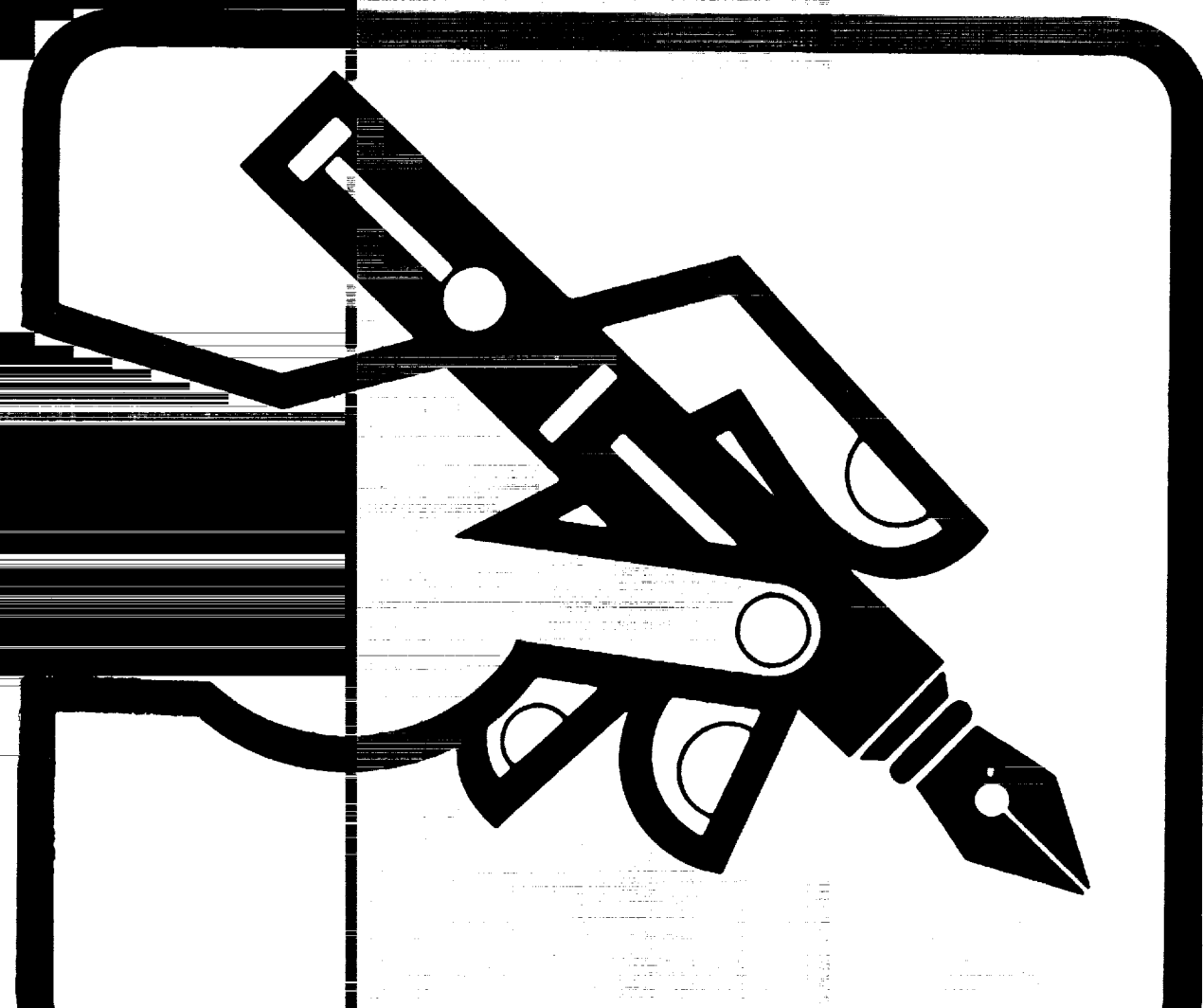
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Media Guide and Public Affairs Contacts

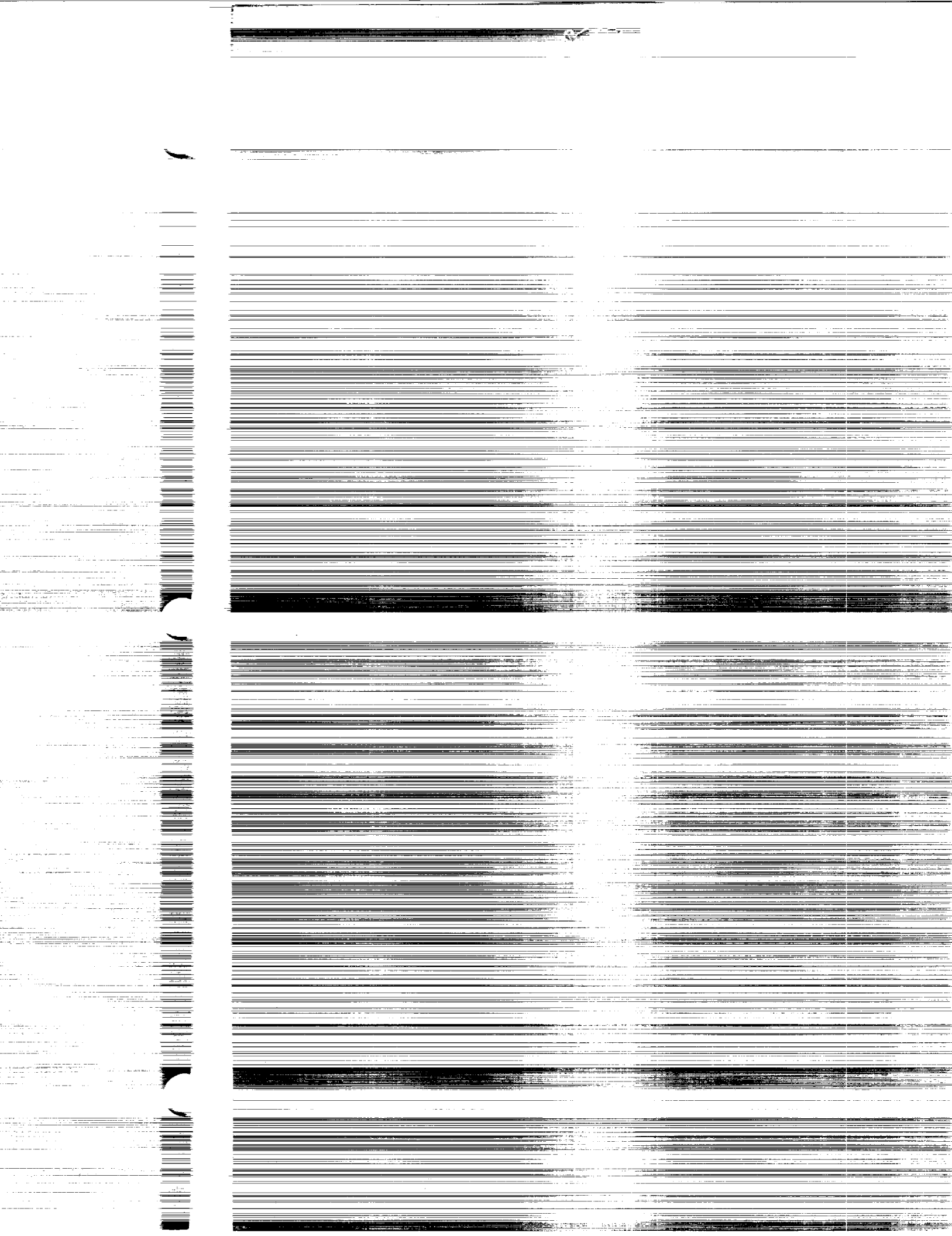


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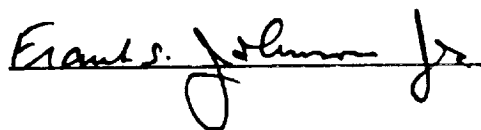


FOREWORD

This Media Guide and Public Affairs Contacts booklet is designed to acquaint media representatives with what NASA does, where it is done and the people who are knowledgeable and available for information on specific subjects.

We hope that through its use and the use of NASA resources that you will be able to do an effective and authoritative job of reporting on the exciting and interesting work of NASA -- its successes and even, from time to time, those things that don't go the way we might have liked.

Be sure to contact us whenever we can be of assistance.

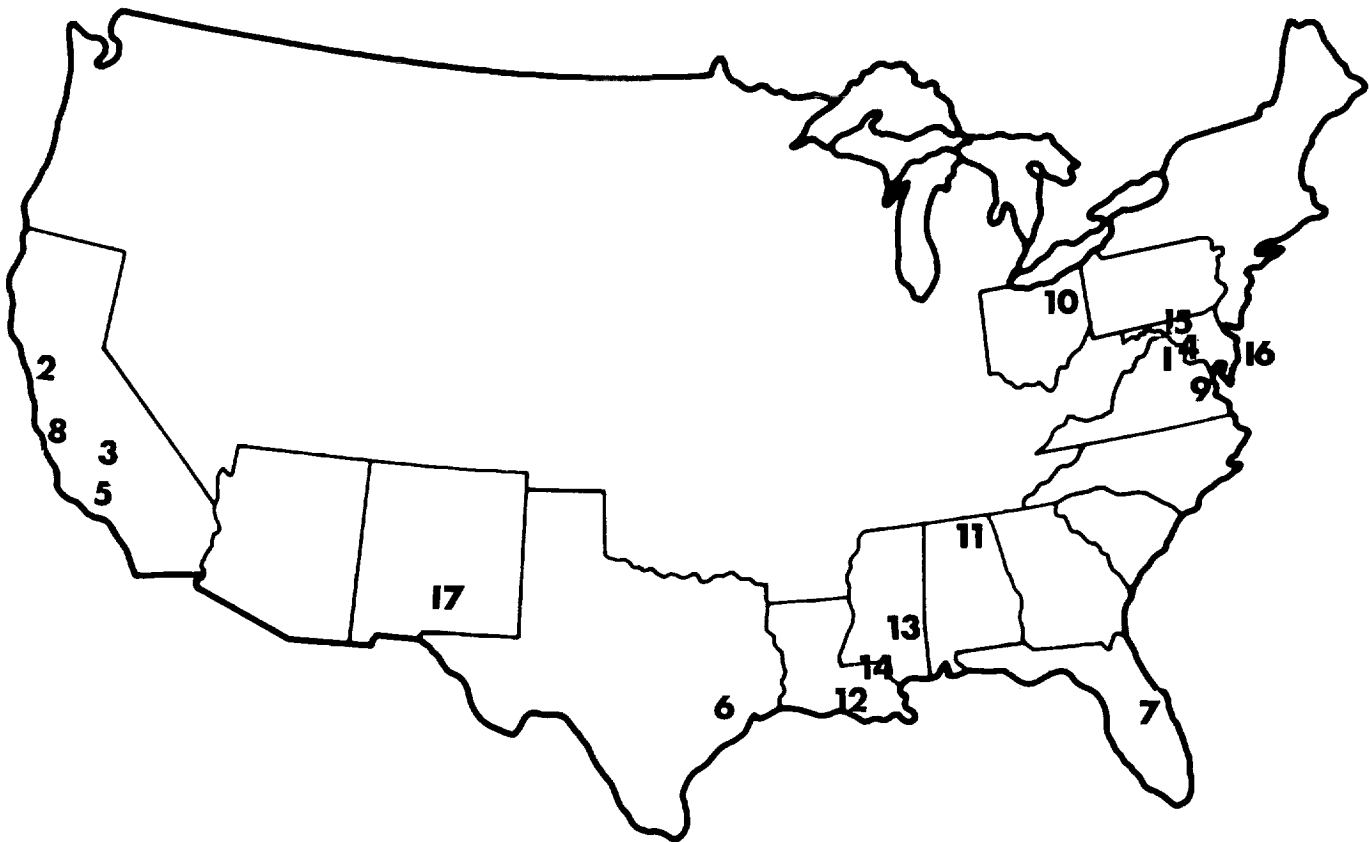
A handwritten signature in dark ink, reading "Frank S. Johnson, Jr.", written over a horizontal line.

Frank S. Johnson, Jr.
Director of Public Affairs

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LOCATION OF NASA MAJOR AND COMPONENT INSTALLATIONS



Key to Locations:

1. NASA Headquarters, Washington, D.C.
2. Ames Research Center, Mountain View, Calif.
3. Dryden Flight Research Facility, Edwards, Calif.
4. Goddard Space Flight Center, Greenbelt, Md.
5. Jet Propulsion Laboratory, Pasadena, Calif.
6. Johnson Space Center, Houston, Texas
7. Kennedy Space Center, Fla.
8. KSC Space Transportation System Resident Office, Vandenberg AFB, Calif.
9. Langley Research Center, Hampton, Va.
10. Lewis Research Center, Cleveland, Ohio
11. Marshall Space Flight Center, Huntsville, Ala.
12. Michoud Assembly Facility, New Orleans, La.
13. National Space Technology Laboratories, Miss.
14. Slidell Computer Complex, Slidell, La.
15. Space Telescope Science Institute, Baltimore, Md.
16. Wallops Flight Facility, Wallops Island, Va.
17. White Sands Test Facility, White Sands, N.M.

NASA HEADQUARTERS

Washington, DC 20546

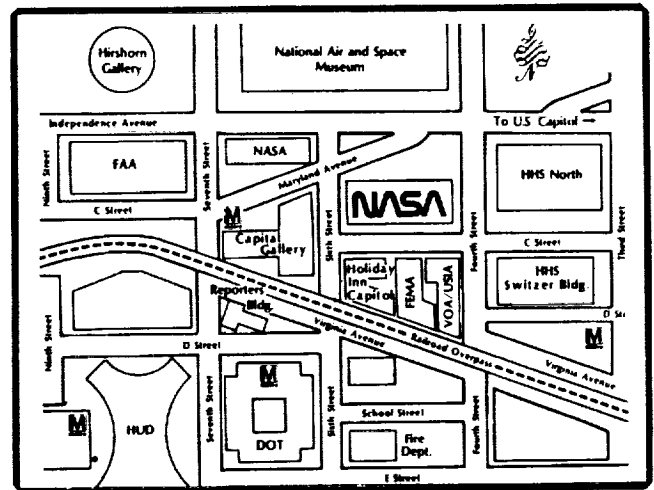
NASA Headquarters is located at 400 Maryland Avenue, S.W., Washington, D.C., and also occupies other buildings in the District of Columbia. It has more than 1,300 employees and administers the total NASA budget, which for FY 1985 amounted to \$7.5 billion. James M. Beggs is administrator.

NASA Headquarters exercises management over the space flight centers, research centers and other installations that constitute the National Aeronautics and Space Administration.

Responsibilities of Headquarters cover the determination of programs and projects, establishment of management policies, procedures and performance criteria; evaluation of progress; and the review and analysis of all phases of the aerospace program.

Planning, direction and management of NASA's research and development programs are the responsibility of six program offices which report to, and receive overall guidance and direction, from an associate or assistant administrator.

The **Office of Aeronautics and Space Technology** (OAST) is responsible for the planning, direction, execution, evaluation, documentation and dissemination of the results of all NASA research and technology programs. These programs are conducted primarily to demonstrate the feasibility of a concept, structure, component system and which may have general application to the nation's aeronautical and space objectives. OAST has institutional management responsibility for Ames Research Center, Mountain View, Calif.; Langley Research Center, Hampton, Va.; and Lewis Research Center, Cleveland. Dr. Raymond S. Colladay is associate administrator.



The **Office of Space Flight** is responsible for developing and applying a capability that will permit man to explore space and perform missions leading to increased knowledge of man and the quality of life on Earth. To achieve this goal, the office directs the development of space transportation and the required supporting systems for man to perform missions in space. A major program now underway is the Space Shuttle, a space transportation system. The office is responsible for scheduling Space Shuttle flights, including the Spacelab, developing financial plans and pricing structures, providing necessary services to users, management of the expendable launch vehicles and upper stages, and management of NASA's advanced program activities. Space Flight also is responsible for institutional management of Kennedy Space Center, Fla.; Marshall Space Flight Center, Huntsville, Ala.; Johnson Space Center, Houston; and the National Space Technology Laboratories, near Bay St. Louis, Miss. Jesse W. Moore is associate administrator.

The **Office of Space Science and Applications (OSSA)** is responsible for the NASA automated space flight program directed toward scientific investigations of the solar system using ground-based, airborne and space techniques including sounding rockets, Earth satellites and deep space probes; for scientific experiments to be conducted by humans in space; directing the NASA scientific portion of the Spacelab program; and for NASA contacts with the Space Science Board of the National Academy of Sciences and other advisory groups. OSSA is responsible for the conduct of research and development activities leading to programs that demonstrate the application of space systems, space environment, and space-related or derived technology for the benefit of the world. These activities involve disciplines such as weather and climate, pollution monitoring, Earth resources survey and Earth and ocean physics. OSSA has institutional management responsibility for the Jet Propulsion Laboratory, Pasadena, Calif., and Goddard Space Flight Center, Greenbelt, Md. Dr. Burton I. Edelson is associate administrator.

The **Office of Space Station** is responsible for managing and directing all aspects of the Space Station program and to achieve the goals established by President Reagan in his State of the Union message of Jan. 25, 1984. These goals include the development of a permanently manned Space Station by the early 1990s; to encourage other countries to participate in the Space Station program; and to promote private sector investment in space through enhanced space-based operational capabilities. The Office of Space Station has overall policy and management responsibilities for the program. NASA's Johnson Space Center has been assigned lead-center responsibilities for the program. Other NASA centers responsible for developing major elements of the Space Station are the Marshall Space Flight Center, Goddard Space Flight Center and Lewis Research Center. Philip E. Culbertson is associate administrator.

The **Office of Space Tracking and Data Systems** is responsible for all activities incident to the tracking of launch vehicles and spacecraft and for the acquisition and distribution of technical and scientific data from them.

This office is also responsible for managing NASA's communications systems and for operational data systems and services. Robert O. Aller is associate administrator.

The **Office of Commercial Programs** is responsible for actively supporting commercial space ventures in the following categories: new commercial high-technology ventures, new commercial application of existing space technology and unsubsidized initiatives aimed at transferring existing space programs to the private sector. The office encourages commercial operations in space by reducing financial, institutional and technical risks. Isaac T. Gillam IV is assistant administrator.

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AMES RESEARCH CENTER

Moffett Field, CA 94035

Ames Research Center was founded in 1940 as an aircraft research laboratory by the National Advisory Committee for Aeronautics (NACA) and named for Dr. Joseph S. Ames, Chairman of NACA from 1927 to 1939. In 1958, Ames became part of NASA, along with other NACA installations and certain Department of Defense facilities. In 1981, NASA merged Ames with the Dryden Flight Research Center and the two installations are now referred to as Ames-Moffett and Ames-Dryden (see separate section on Ames-Dryden).

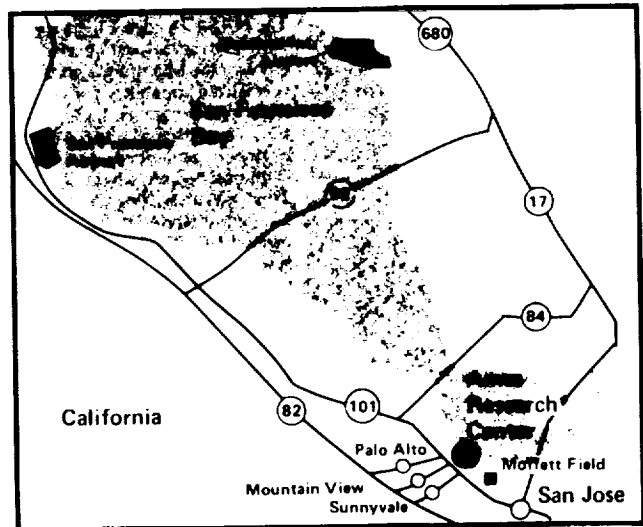
Ames-Moffett is located in the heart of "Silicon Valley" at the southern end of San Francisco Bay on about 422 acres of land adjacent to the U.S. Naval Air Station, Moffett Field.

Ames specializes in scientific research, exploration and applications aimed toward creating new technology for the nation.

The center's major program responsibilities are concentrated in computer science and applications, computational and experimental aerodynamics, flight simulation, flight research, rotorcraft and powered-lift technology, aeronautical and space human factors, life sciences, space sciences, airborne science and applications, and infrared astronomy.

The center also supports military programs, the Space Shuttle and various civil aviation projects. These projects and responsibilities will continue to evolve as NASA's needs change and Ames' capabilities develop.

About 2,000 civil service employees and some 1,400 contractor employees are employed at Ames' two locations. In addition, approximately 400 graduate students, cooperative education students, post-doctoral fellows and university faculty members work at the center.



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The Ames staff uses advanced equipment in their search for new technology. This equipment includes aircraft and spacecraft, wind tunnels, large computer facilities, flight simulators and entry heating simulators.

The center's laboratories are equipped to study solar and geophysical phenomena, life evolution and life environmental factors, and to detect life on other planets. Capital investment at the two locations is more than \$800 million, and today's estimated replacement value is more than \$2.1 billion. Dr. William F. Ballhaus Jr. is center director.

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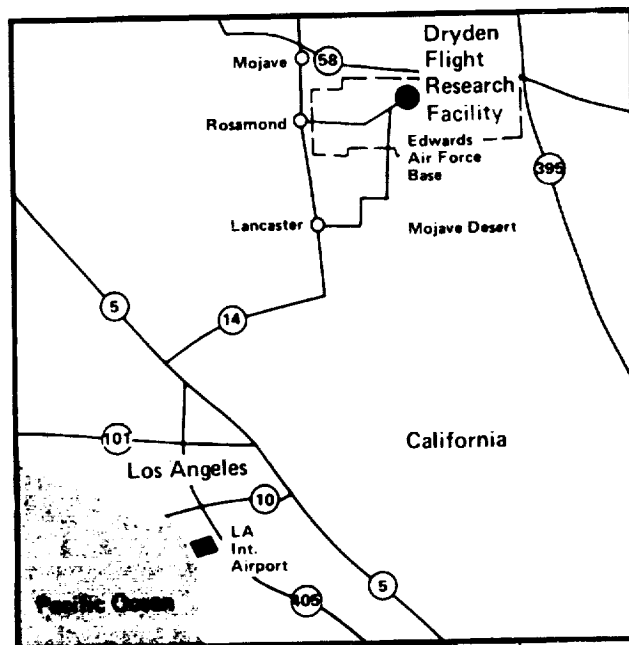
Ames Research Center
**HUGH L. DRYDEN FLIGHT RESEARCH
FACILITY**

Post Office Box 273
Edwards, CA 93523

The Ames-Dryden Flight Research Facility is located at Edwards, Calif., in the Mojave Desert, approximately 80 miles north of the Los Angeles metropolitan area.

The facility enjoys almost ideal weather for flight testing and is located at the southern end of a 500-mile high-speed flight corridor. Situated adjacent to Rogers Dry Lake, a 65-square-mile natural surface for landing, the facility is in an isolated area free from problems of population disturbance or hazard. Its primary research tools are research aircraft, ranging from a B-52 carrier aircraft and high performance jet fighters to the X-29 forward swept wing aircraft. Ground-based facilities include a high temperature loads calibration laboratory that allows ground-based testing of complete aircraft and structural components under the combined effects of loads and heat; a highly developed aircraft flight instrumentation capability; a flight systems laboratory with a diversified capability for avionics system fabrication, development and operations; a flow visualization facility that allows basic flow mechanics to be seen on models or small components; a data analysis facility for processing of flight research data; a remotely piloted research vehicles facility and a test range communications and data transmission capability that links NASA's Western Aeronautical Test Range facilities at Ames-Moffett, Crows Landing and Ames-Dryden.

Since 1947, Ames-Dryden has developed a unique and highly specialized capability for conducting flight research programs. Its test organization, consisting of pilots, scientists, engineers, technicians and mechanics, is unmatched anywhere in the world. This versatile organization has demonstrated its capability, not only with high-speed research aircraft, but also with such unusual flight vehicles as the Lunar Landing Research



Vehicle and the wingless lifting bodies.

The facility was actively involved in the Approach and Landing Tests (ALT) of the Space Shuttle Orbiter Enterprise and continues to support Shuttle orbiter landings from space as well as processing for ferry flights to the launch site.

Ames-Dryden's major projects include the X-29. With the X-29, NASA is conducting a research program in a variety of advanced aero technologies including forward swept wings, aeroelastic tailoring, close-coupled variable incidence canards, strake flaps, thin supercritical wings, variable camber, three surface pitch control and an advanced flight control system.

Another major program is the Advanced Fighter Technology Integration (AFTI) F-111. The AFTI F-111 features a smooth surface variable camber Mission Adaptive Wing

(MAW). With the MAW, a pilot would select the best possible wing cross section shape to fit the flight regime: a highly cambered wing for subsonic maneuvering, a supercritical wing for transonic flight or a super-sonically efficient wing. MAW promises wing adaptation without drag causing slats, flaps and spoilers as well as other benefits.

Ames-Dryden is preparing a specially instrumented F-18 to investigate high alpha or high angle of attack flight. Today's high performance jet aircraft can fly in the high alpha flight regime, but not necessarily efficiently. The facility's research in this area will create a data base for aircraft designers to accurately predict high alpha airflow. High alpha technology may result in airplanes capable of "supermaneuvers" and will help eliminate costly design "fixes" and operational limitations imposed on aircraft designed without this technology.

Other aircraft research programs under way at the facility include the C-140 JetStar Laminar Flow Control Leading Edge Flight Test program which investigates the use of leading edge systems using suction, deicing and cleaning to facilitate laminar flow; and the Highly Integrated Digital Electronic Control program (HIDEC) which investigates an integrated digital electronic engine control system and digital flight control system on the facility's F-15. The F-8 Digital Fly-By-Wire test bed aircraft continues digital flight control experiments as NASA prepares to equip it with an oblique wing for flight research in the late 1980s. Martin A. Knutson is site manager.

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GODDARD SPACE FLIGHT CENTER

Greenbelt, MD 20771

Goddard Space Flight Center (GSFC) is located 10 miles northeast of Washington, D.C. A modern, campus-like complex of 29 buildings, the center is situated on about 1,100 acres of rolling Maryland hills. Staffed by more than 8,000 people, Goddard has one of the world's leading groups of scientists, engineers and administrative managers devoted to research in the space/Earth sciences and applications.

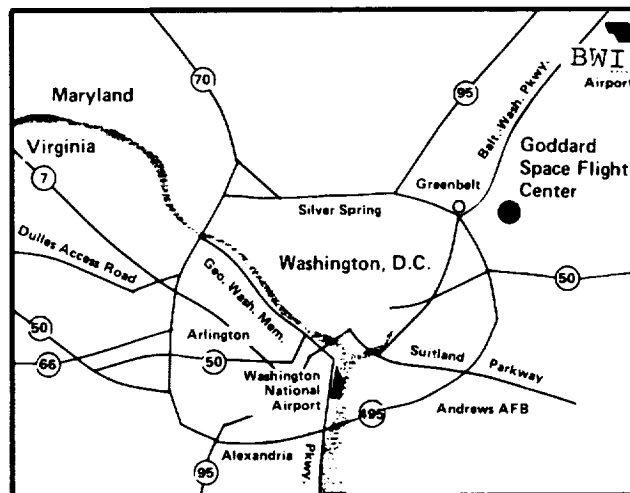
In addition to the Greenbelt complex, Goddard's facilities include Wallops Flight Facility, Wallops Island, Va.; Goddard Institute for Space Studies in New York City; the National Scientific Balloon Facility in Palestine, Texas; and 12 tracking stations around the world.

Goddard is responsible for automated, unmanned spacecraft and sounding rocket experiments in support of basic and applied research. Satellite and sounding rocket projects provide data about the Earth's environment, sun/Earth relationships and the universe. These projects advance technology in such areas as communications, meteorology, navigation and in detecting and monitoring our natural resources.

Goddard also is the home of the National Space Science Data Center. This facility, housing banks of high speed computers, is the central repository of the data collected with space flight experiments.

Goddard is responsible for development of the Hubble Space Telescope's scientific instruments and management of the Space Telescope Science Institute, located at Johns Hopkins University in Baltimore, Md. The Hubble Space Telescope will become the principal tool for exploring the universe through this decade and the next.

Goddard is playing a major role in the development of the Space Station. The center's role is to develop facility requirements,



tools, techniques and procedures for operating and servicing payloads attached to the Space Station or free-flying satellites co-orbiting with the station.

Goddard serves as lead organization in the research component for the international search and rescue project, COSPAS/SARSAT. Supported by Canada, France, the Soviet Union and the United States, the program uses satellites to help locate and rescue people from ships and planes in distress.

Much of the center's theoretical research is conducted at the Goddard Institute for Space Studies in New York City. Operated in close association with universities in that area, the institute provides supporting research in geophysics, astrophysics, astronomy and meteorology to NASA and Goddard.

Located about 20 minutes from downtown Washington, the Goddard Visitor Center is a major tourist feature in the area near the nation's capital. The collection of spacecraft and flight articles are just part of the educational and informational materials available to the visiting public. Dr. Noel W. Hinners is center director.

Goddard Public Affairs Contacts - 130

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JET PROPULSION LABORATORY

4800 Oak Grove Drive
Pasadena, CA 91109

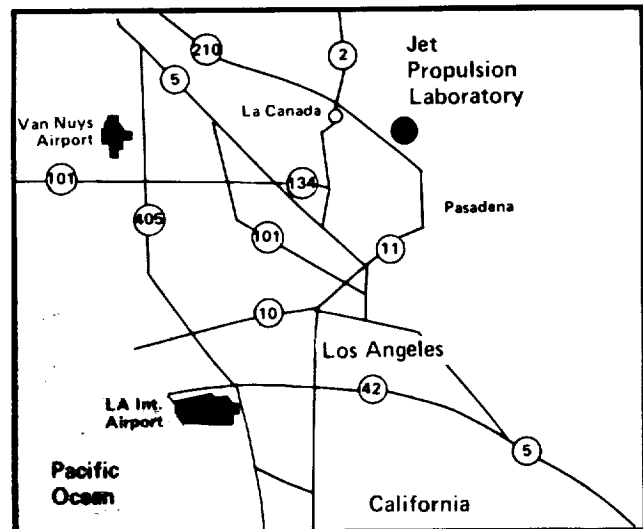
NASA's Jet Propulsion Laboratory (JPL) is located near Pasadena, Calif., approximately 20 miles northeast of Los Angeles.

JPL, occupying 177 acres of land, is a government-owned facility staffed by the California Institute of Technology. JPL operates under a NASA contract administered by the NASA Pasadena office. In addition to the Pasadena site, JPL operates the Deep Space Communications Complex, a station of the worldwide Deep Space Network (DSN) located at Goldstone, Calif., on 40,000 acres of land occupied under permit from the U.S. Army.

The laboratory is engaged in activities associated with deep space automated scientific missions — engineering subsystem and instrument development, and data reduction and analysis required by deep space flight. Current NASA flight projects under JPL management include Voyager, Galileo, Venus Radar Mapper and the Mars Observer. Major instruments under development include the Wide Field/Planetary Camera for Space Telescope, the scatterometer instrument for the Navy's NROSS satellite and the Shuttle Imaging Radar (SIR-C).

The laboratory designs and tests flight systems, including complete spacecraft, and provides technical direction to contractor organizations.

JPL operates the worldwide deep space tracking and data acquisition network (DSN) and maintains a substantial technology program to support present and future NASA flight projects and to increase capabilities of the laboratory. Non-NASA work at JPL includes tasks for the Departments of Defense and Energy, the Federal Aviation Administration and the National Institutes of Health. Dr. Lew Allen is director of JPL.



JPL Public Affairs Contacts

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LYNDON B. JOHNSON SPACE CENTER

Houston, TX 77058

Johnson Space Center is located on NASA Road 1, adjacent to Clear Lake, 2 miles east of the town of Webster, and about 20 miles southeast of downtown Houston. Additional facilities are located at nearby Ellington Field, approximately 7 miles north of the center.

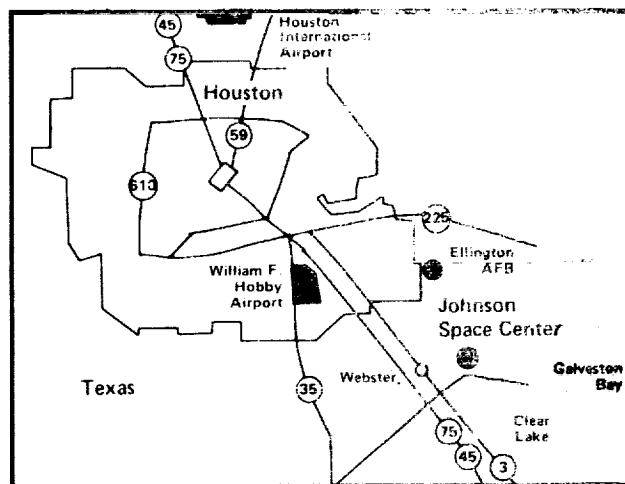
Johnson Space Center was established in September 1961 as NASA's primary center for design, development and testing of spacecraft and associated systems for manned flight; selection and training of astronauts; planning and conducting manned missions; and extensive participation in the medical, engineering and scientific experiments carried aboard space flights.

Johnson has program management responsibility for the Space Shuttle program, the nation's current manned space flight program.

In February 1984, Johnson was named lead NASA center for the Space Station, a permanently manned, Earth-orbiting facility to be constructed in space and operable within a decade. Johnson will be responsible for the interfaces between the Space Station and the Space Shuttle.

Johnson also is responsible for direction of operations at the White Sands Test Facility (WSTF), located on the western edge of the U.S. Army White Sands Missile Range at Las Cruces, N.M. WSTF supports the Space Shuttle propulsion system, power system and materials testing.

Johnson Space Center is one of the major tourist attractions in the southwestern United States. More than one million visitors, including many international visitors, tour the center each year. While most of the 100 buildings, situated on 1,620 acres, are office space and laboratories, five buildings are open to the public every day except Christmas.



Briefings are conducted daily at the Mission Control Center, where Shuttle missions are monitored. Other buildings, accessible on a self-guided basis, house spacecraft and space artifacts. Gerald D. Griffin is center director.

Johnson Public Affairs Contacts

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John E. Riley Deputy Chief, Media Services Branch	AC 713 483-5111	525-5111	AC 713 471-0624
Robert T. (Terry) White Public Information Specialist ● Space Station	AC 713 483-5111	525-5111	AC 713 332-5177
David B. Alter Public Information Specialist ● Space Shuttle	AC 713 483-5111	525-5111	
L. John Lawrence Public Information Specialist ● Research & Engineering ● Payload Specialists	AC 713 483-5111	525-5111	AC 713 532-1669
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Norma Kersman Public Mail/FOIA	AC 713 483-4241	525-4241	AC 713 333-5344
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JOHN F. KENNEDY SPACE CENTER

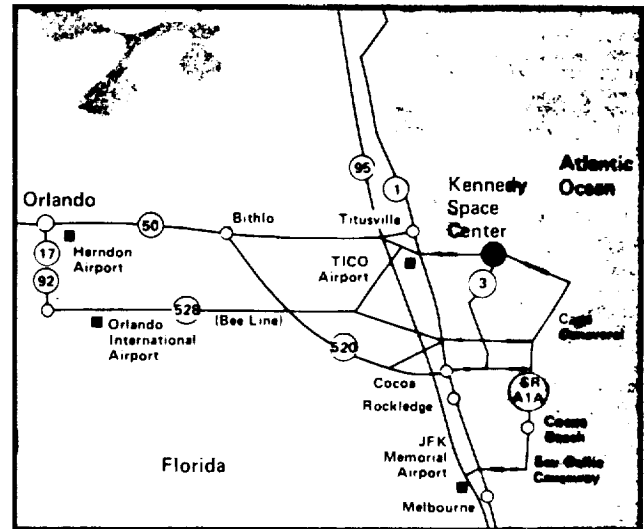
Kennedy Space Center, FL 32899

Kennedy Space Center (KSC) is located on the east coast of Florida, 150 miles south of Jacksonville and approximately 50 miles east of Orlando. It is immediately north and west of Cape Canaveral. The center is about 34 miles long and varies in width from 5 to 10 miles. The total land and water area occupied by the installation is 140,393 acres. Of this area, 84,031 acres is NASA-owned. The remainder is owned by the State of Florida. This area, with adjoining water bodies, provides sufficient space to afford adequate safety to the surrounding civilian community for planned space launches. Agreements have been made with the Department of the Interior regarding the use of non-operational areas as a wildlife refuge and national seashore on a non-interference basis.

The center was originally created out of virgin savannah and marshland in the early 1960s to serve as the launch site for the Apollo lunar landing missions. After the Apollo program ended in 1972, Kennedy's Complex 39 was used for the launch of the Skylab spacecraft, and later, the Apollo spacecraft for the Apollo Soyuz Test Project.

Kennedy Space Center serves as the primary center within NASA for the test, checkout and launch of space vehicles. This presently includes launch of manned and unmanned vehicles at Kennedy and the Air Force Eastern Space and Missile Center in Florida, and the Air Force Western Space and Missile Center at Vandenberg Air Force Base in California.

The center is now concentrating on the assembly, checkout and launch of Space Shuttle vehicles and their payloads, landing operations and the turn-around of Space Shuttle orbiters between missions, as well as research and operational unmanned launches.



Kennedy also is responsible for the operation of the KSC Space Transportation System (STS) Resident Office, located at Vandenberg Air Force Base in Santa Barbara County, on the California central coast.

The KSC STS Resident Office provides or arranges host base support for all NASA elements at Vandenberg and range support for all STS and Kennedy Deployable Payload project requirements. The Resident Office supports the Air Force in the design, construction and activation of the Space Shuttle Vandenberg launch and landing site; provides support for all NASA Deployable Payload Operations; and assists the KSC Cargo Projects Office in planning for all STS cargo operations at Vandenberg. Richard G. Smith is center director.

Kennedy Public Affairs Contacts

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Visitors Services Branch - PA-VIC

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LANGLEY RESEARCH CENTER

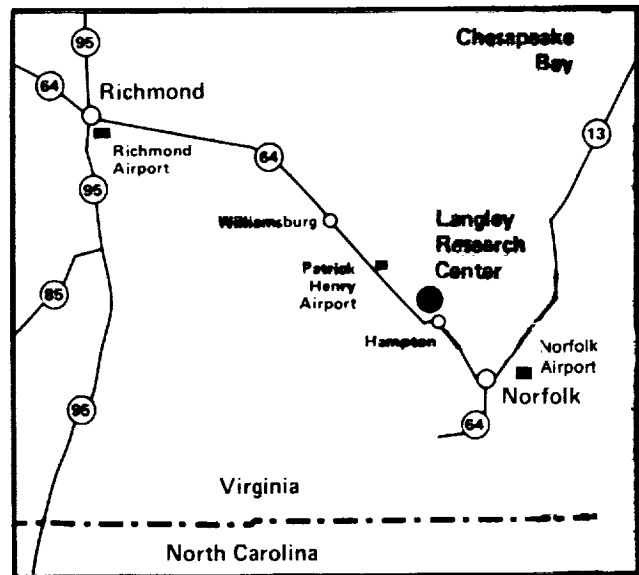
Hampton, VA 23665

Langley Research Center, Hampton, Va., is approximately 100 miles south of Washington, D.C. It is situated in the Tidewater area of Hampton Roads, between Norfolk and Williamsburg, Va. The center occupies 772 acres of government-owned land divided into two areas by the runway facilities of Langley Air Force Base. The west area consists of 749 acres, 430 owned by NASA and 319 under permit from the Air Force. Runways, some utilities and certain other facilities are used jointly by NASA and the Air Force. There are 110 acres of NASA-owned land located near the city of Newport News, Va. An additional 3,286 acres of marshland near Langley are under permit to NASA and are used as a model drop zone. The total acreage presently owned, under permit or leased is 4,168.

Langley's primary mission is the research and development of advanced concepts and technology for future aircraft and spacecraft systems, with particular emphasis on environmental effects, performance, range, safety and economy. Examples of this research are projects involving the supercritical wing, composite structural materials and automatic flight control systems.

Work continues in the development of technology for avionic systems for reliable operations in terminal areas of the future. Efforts continue to improve supersonic flight capabilities for both transport and military aircraft. The center works with the general aviation industry to help solve problems concerning aircraft design and load requirements and to improve flight operations.

The aeronautical research program is aimed at identifying and pursuing basic and applied research opportunities offering the greatest potential for increases in performance, efficiency and capability. Included in the research laboratories are a variety of wind tunnels covering the entire Mach-number range.



A recent addition is the National Transonic Facility, which is a new cryogenic, high-pressure wind tunnel providing a unique opportunity for conducting high Reynolds-number research at subsonic and transonic speeds. Major research disciplines include materials; flutter, aeroelasticity, dynamic loads, and structural response; fatigue fracture; electronic and mechanical instrumentation; computer technology; flight dynamics and control and communications technology.

Langley was responsible for NASA's Viking Project that orbited and landed spacecraft on Mars in 1976. The Viking conducted a detailed study of the Martian atmosphere and surface and searched for life forms on the planet.

NASA's smallest launch vehicle, the Scout is managed at the center.

Langley supports manned and unmanned space programs, including the Space Shuttle, through the development of experiments, sensors, communications equipment, and data handling systems.

Other research programs include the investigations of effects such as heat, vacuum, noise and meteoroids on space vehicles, the use of advanced composite and polymeric materials for structures and thermal control systems, and improved technology for many kinds of electronics systems.

The NASA Langley Visitor Center, located on NASA's oldest research center, features more than 40 exhibits and a variety of films which chronicle man's achievement in aeronautics and in space. Richard H. Petersen is center director.

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LEWIS RESEARCH CENTER

21000 Brookpark Road
Cleveland, OH 44135

Lewis Research Center is located on the west side of Cleveland Hopkins Airport in Cuyahoga County, Ohio. The center occupies 360 acres of land, about 15 acres of which are leased from the City of Cleveland.

Lewis is NASA's lead center for research, technology and development in aircraft propulsion, space propulsion, space power and satellite communication.

Lewis also has the responsibility for developing the power system for the Space Station and is the home of the Microgravity Materials Science Laboratory, a unique facility to qualify potential space experiments.

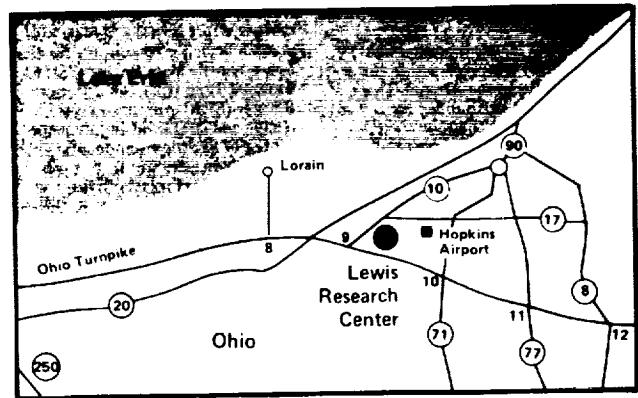
Lewis Research Center consists of laboratory buildings, shops, wind tunnels, space environment tanks, and other specialized facilities for conducting research in advanced aeronautic and space propulsion systems; space communications; space power systems; and microgravity materials science.

Other experimental facilities include a zero-gravity drop tower, chemical rocket thrust stands, and chambers for testing jet engine efficiency and noise.

Lewis manages the Centaur launch vehicle, currently being used as an upper stage, with an Atlas first stage, and being modified for use as an upper stage with the Space Shuttle.

Lewis also manages the Plum Brook Station facility in central Erie County about 3 miles south of Sandusky, Ohio. The Plum Brook Station provides very large-scale specialized test facilities, virtually all of which are in stand-by condition now.

The Lewis Visitor Information Center offers programs for the general public and for the educational community.



The center consists of an auditorium and a display area containing exhibits titled Our Servants in Space, Exploring Space, Propulsion, Flight in the Atmosphere, Technology Utilization, Materials Research and Space Shuttle. Andrew J. Stofan is center director.

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Lewis Public Affairs Contacts

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Judy Buttler Exhibits	AC 216 433-2017	297-2017	
Diane Steadly Teleconferences	AC 216 433-2016	297-2016	

MARSHALL SPACE FLIGHT CENTER

Marshall Space Flight Center, AL 35812

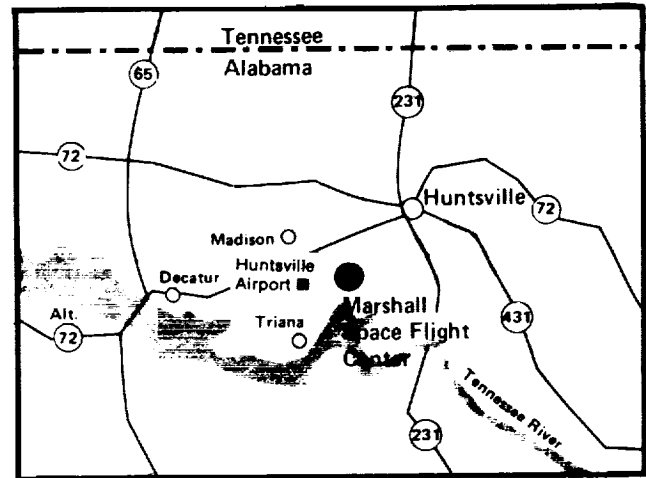
The George C. Marshall Space Flight Center (MSFC) is located on 1,800 acres inside the U.S. Army's Redstone Arsenal at Huntsville, Ala. The center has about 3,300 civil service employees. Of this number, about 58 percent are scientists and engineers and 16 percent are business professionals. The remainder consists of technicians and administrative and clerical support personnel.

Marshall was formed on July 1, 1960, by the transfer to NASA of buildings and personnel comprising part of the U.S. Army Ballistic Missile Agency. Named for the famous soldier and statesman, General of the Army George C. Marshall, it was officially dedicated by President Dwight D. Eisenhower on Sept. 8, 1960.

Two other sites are managed by Marshall: the Michoud Assembly Facility, New Orleans (see separate section), where the Space Shuttle external tanks are manufactured; and the Slidell Computer Complex, Slidell, La.

In the past, Marshall has been identified most often as NASA's launch vehicle development center. While this label accurately describes part of the center's activities, the organization has another side. Marshall is a multi-project management, scientific and engineering establishment, with much emphasis on projects involving scientific investigation and application of space technology to the solution of problems on Earth.

In helping to reach the nation's goals in space, the center is working on many projects. Marshall had a significant role in the development of the Space Shuttle. It provides the orbiter's engine, the expendable external tank that carries liquid hydrogen and liquid oxygen for those engines, and the solid rocket boosters that assist in lifting the Shuttle orbiter from the launch pad.



The center also plays a key role in the development of payloads to be flown aboard the Shuttle. One such payload is Spacelab, a reusable, modular scientific research facility that is carried in the Shuttle's cargo bay. This facility was designed, tested and provided to NASA by the European Space Agency. Marshall is responsible for technical and programmatic monitoring of development activities and for development of selected hardware.

Marshall has management responsibility for the Hubble Space Telescope, an optical telescope to be placed in orbit in mid-1986. It will orbit above the Earth's hazy and turbulent atmosphere, enabling scientists to see deep into space -- farther than is now possible -- perhaps to the outer edges of the universe.

The Tethered Satellite System, the "satellite on a string," expected to be in orbit by late 1987, also is under Marshall management. Scheduled to be carried into orbit by the Space Shuttle, the satellite would be suspended either downward or upward from the orbiter's cargo bay on a tether -- a super-strong synthetic cord about 1/16th of an inch

thick and up to 60 miles in length. When deployed upward, the satellite will study electrodynamic and other scientific phenomena. Deployed downward, it will troll the Earth's upper atmosphere for magnetospheric, atmospheric and gravitational data.

Also under study at Marshall are Space Station concepts which would host multiple experiment payloads that could be exchanged on orbit. The center has been assigned the major role of studying the habitability, laboratory and logistic modules for the Station.

Studies are under way for building large structures in space, but to do so economically it will be necessary to devise means to carry larger payloads at one time into orbit than now possible with the Shuttle's 65,000-pound load capability. Marshall is looking into designs for Shuttle-derived vehicles, to carry as much as 200,000 pounds into orbit in a single launch. Several variations of these are under study, including an unmanned version called "SRB-X," in which several reusable boosters would be strapped together with cargo mounted atop the stack.

Another concept is the "in-line" cargo vehicle, in which the Shuttle orbiter would be replaced by an unmanned cargo cannister atop an external tank fitted with one or more Shuttle main engine modules under the tank. The in-line vehicle could carry from 85,000 to 250,000 pounds of cargo into orbit, depending on the number of main engines used. The engine(s) would possibly be recoverable, depending on the mission usage.

Marshall also is committed to the investigation of materials processing in space, which — in a gravity-free environment — promises to provide opportunities for understanding and improving Earth-based processes and for the formulation of space-unique materials. Dr. William R. Lucas is center director.

Marshall Public Affairs Contacts

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MICHOUD ASSEMBLY FACILITY

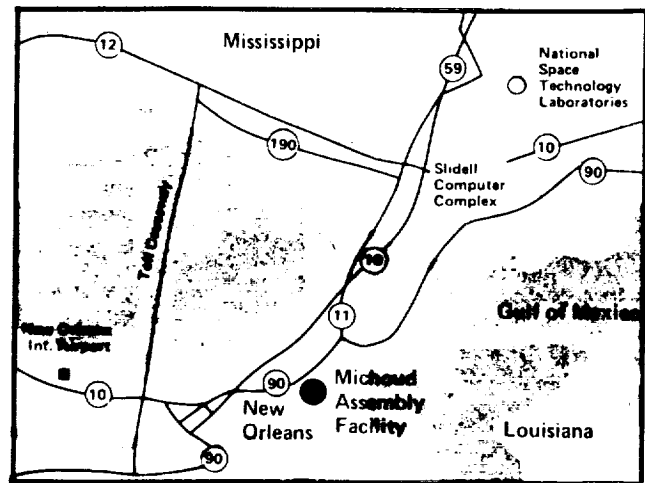
P.O. Box 29300
New Orleans, LA 70189

The Michoud Assembly Facility is located in Orleans Parish, La., about 15 miles east of downtown New Orleans. The site is on the Gulf Intra-Coastal Waterway and has deep water access via the Mississippi Gulf outlet.

The facility occupies approximately 833 acres of land. On this site there are 33 buildings with an area of about 3.5 million square feet. The largest building within the complex is the main manufacturing building, originally built in 1942.

The primary mission of Michoud is the systems engineering, engineering design, manufacture, fabrication, assembly and related work for the Space Shuttle external tank.

Marshall Space Flight Center exercises overall management control of the facility. A prime contractor, Martin Marietta, provides Space Shuttle production capability. Dr. Mathias P. Siebel is manager of Michoud.



NOTE: No Public Affairs Office exists at Michoud Assembly Facility. Public Affairs functions for Michoud are handled by the Director of Public Affairs at Marshall Space Flight Center. Liaison between Michoud and MSFC in public affairs matters is handled by:

NAME & TITLE	OFFICE PHONE	FTS	HOME PHONE
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NATIONAL SPACE TECHNOLOGY LABORATORIES

NSTL, MS 39529

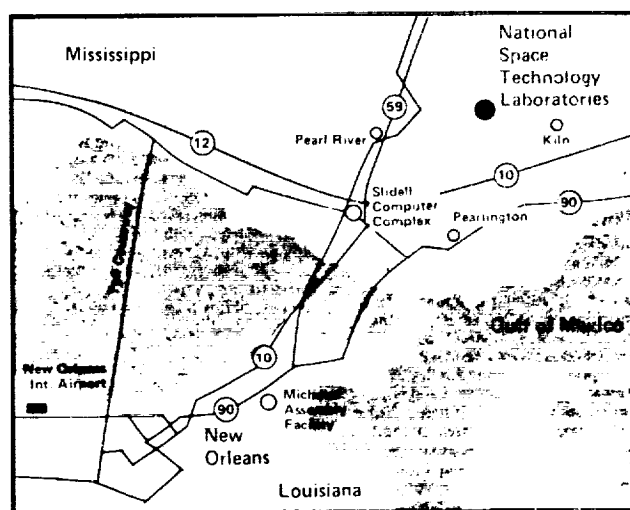
The NASA National Space Technology Laboratories (NSTL) is located in Hancock County near Bay St. Louis, Miss., on the East Pearl River. NSTL's scientific community is actively engaged in several research and development programs involving space, oceans and Earth.

The complex includes industrial, laboratory and specialized engineering facilities to support the testing of large rocket propulsion systems. NSTL has deep water access for transporting oversize cargo via the East Pearl River and Intercoastal Waterway. The total land area is 138,808, of which 13,480 make up the operational base. The remaining 125,828 acres are held mostly under restrictive easement as an acoustical "buffer" zone.

The main mission of NSTL is support of Space Shuttle main engine and main orbiter propulsion system testing. Static test firings are conducted on the same huge test towers used from 1966 to 1970 to captive-fire all first and second stages of the Saturn V used in the Apollo manned lunar landing and Skylab programs. Shuttle main engine testing has been under way at NSTL since 1975.

Formerly designated the Mississippi Test Facility, NSTL was given full field installation status by NASA in 1974 because of its significant achievements and unique capabilities in space applications and Earth resources activities.

NSTL has evolved into a center of excellence in the area of remote sensing and is involved in Earth sciences programs of national and international significance. NSTL's Earth Resources Laboratory develops and manages a balanced research and development program in Earth sciences, remote sensing technique and applications, and sensor and data systems development and operations.



NSTL also conducts data systems and commercial utilization studies in support of the Space Station. Mississippi's Institute for Technology Development has been selected by NASA to establish a national Center for the Commercial Development of Space at NSTL. The institute is one of only five centers nationwide to receive NASA incentive grants for research to promote and stimulate space technology commercial applications.

NSTL also is host to several federal and state agencies and university elements in residence involved primarily in environmental and oceanographic programs.

NSTL's Visitors Center is one of the fastest growing visitor attractions in the southeastern United States. A typical visit includes an overview of NASA's mission at NSTL, along with demonstrations of space-related hardware and a guided tour of the installation. I. Jerry Hlass is director of NSTL.

NSTL Public Affairs Contacts

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SPACE TELESCOPE SCIENCE INSTITUTE

Johns Hopkins Homewood Campus
Baltimore, MD 21218

The Space Telescope Science Institute (ST ScI) is located in Baltimore, on the campus of Johns Hopkins University.

ST ScI is operated for NASA by the Association of Universities for Research in Astronomy (AURA). The institute has a resident contingent of scientists and engineers from the European Space Agency (ESA).

The facility consists of one main building situated in a wooded park. This five-story structure contains an auditorium, cafeteria, offices for scientists and administrative personnel, and the computer and imaging systems required to process, analyze and display science data incoming from NASA's Hubble Space Telescope. A secondary structure across the street from the main building provides parking and additional operations space.

ST ScI is managed by scientists to plan and conduct science operations for the Edwin P. Hubble Space Telescope. The telescope represents a cooperative venture between NASA and ESA. Scheduled for launch aboard the Space Shuttle in 1986, the telescope spacecraft will orbit the Earth at approximately 300 miles, for a period of 15 to 20 years, sending data and receiving commands through NASA's Tracking and Data Relay Satellite System.

ST ScI Public Affairs Contact

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**Goddard Space Flight Center
Wallops Flight Facility**

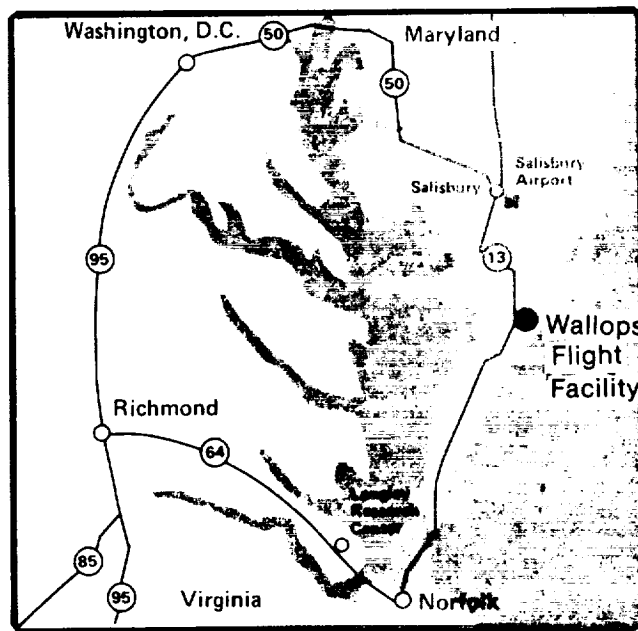
Wallops Island, VA 23337

Wallops Flight Facility, a part of the Goddard Space Flight Center, is one of the oldest launch sites in the world. Established in 1945, the facility covers 6,166 acres, including about 1,100 acres of marshland, in three separate areas of Virginia's Eastern Shore — the island, the main base and the mainland in back of the island. Wallops Island is about 7 miles southeast of the main base and is 5 miles long and 1/2 mile wide at the widest point. Wallops is located on Virginia's Atlantic Coast, Delmarva Peninsula, about 40 miles southeast of Salisbury, Md., and 72 miles north of the Chesapeake Bay Bridge Tunnel.

Wallops manages and implements NASA's sounding rocket projects which use suborbital rocket vehicles to accommodate approximately 50 scientific missions each year. Launches are conducted at Wallops and many other ranges throughout the world. The first rocket, a Tiamat, was launched on July 4, 1945, and since that time about 13,000 rockets have been launched from Wallops Island.

Wallops manages and coordinates NASA's Scientific Balloon Projects using thin film, helium filled balloons to provide approximately 45 scientific missions each year. Launches are conducted at Palestine, Texas, and several other sites throughout the world.

The facility operates and maintains the Wallops launch range and data acquisition facilities. Approximately 100-150 rocket launches are conducted each year from the Wallops Island site. In addition, mobile launch, tracking and data acquisition systems are transported to and operated at various world sites to accommodate sounding rocket, balloon and NASA networks mission requirements.



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Wallops supports NASA, DOD and other agencies in aeronautical research. Approximately 150-200 test operations are conducted each year using many different aircraft types. Wallops aircraft also are used to support applications and scientific research missions.

In cooperative and commercial projects, Wallops provides support including launching, tracking, aircraft flights and data reduction, to various segments of DOD, other agencies, commercial and educational ventures.

Wallops plans and conducts Earth and ocean physics, ocean biological and atmospheric science field experiments; satellite correlative measurements; and developmental projects for new remote sensor systems. The main thrust of this effort is in support of the Laboratory for Oceans programs.

Wallops supports tenants (NOAA, Navy, Coast Guard) that use the land and facilities available at the site. The support also includes providing fire protection, utilities, coordination of operations, repairs to buildings guards and other related services.

It provides the facilities that are specifically designed for the Management and Education Programs of the NASA Office of Professional Development and for other NASA courses and conferences.

Wallops Public Affairs Contact

NAME (TELEMAIL ADDRESS) & TITLE	OFFICE PHONE	PTS	HOME PHONE
Joyce B. Milliner (JMILLINER) Public Affairs Officer ext. 579	AC 804 824-3411	928-5579	AC 804 665-4703

PAO ALPHABETICAL LISTING

NAME/CENTER/MAIL CODE	OFFICE PHONE	EXT	FTS	HOME PHONE
A				
AHALT, Darlene-GSFC/130	301/344-8101		344-8101	301/552-2674
ALTER, David-JSC/AP3	713/483-5111		525-5111	713/480-0202
ANDERSON, Bill-MSFC/CA20	205/453-0038		872-0038	205/723-2898
ATCHISON, Kenneth-HQ/LFD-2	202/453-8400		453-8400	301/937-2198
B				
BAILEY, Elva-GSFC/130	301/344-7207		344-7207	301/464-0599
BALL, James-KSC/PA-PIB	305/867-2468		823-2468	305/267-6995
BANE, Don-JPL/180-201	818/354-6278		792-6278	818/449-9212
BARNES, Geneva-HQ/LI	202/453-8455		453-8455	301/622-2082
BAYER, Kathy-GSFC/130	301/344-7995		344-7995	301/721-3912
BIGGS, Charles-JSC/AP4	713/483-4241		525-4241	713/487-2978
BLUCK, John-LeRC/3-11	216/433-5578		297-5578	216/228-0136
BOLES, Diana-KSC/PA-PIB	305/867-2468		823-2468	305/267-7193
BONDURANT, Lynn-LeRC/3-11	216/433-5583		297-5583	216/933-4529
BORST, Cory-JPL/180-205	818/354-6170		792-6170	818/957-8458
BRIDGES, Stephen-JPL/180-205	818/354-6170		792-6170	818/793-4688
BRISTOW, Frank-JPL/180-200	818/354-5011		792-5011	818/848-8464
BROWN, Dwayne-HQ/LFD-2	202/453-8400		453-8400	202/554-6903
BROWN, Jerry-NSTL	601/688-1957		494-1957	601/255-3611
BUCHANAN, June-KSC/PA-EAB	305/867-4444		823-4444	305/254-7239
BUCKINGHAM, Bruce-KSC/PA-PIB	305-867-7819		823-7819	305/725-3997
BUDD, Judy-LeRC/7-4	216/433-5580		297-5580	
BURNETT, James-LeRC/3-16	216/433-2922		297-2922	216/941-2287
BUTTLER, Judy-LeRC/7-4	216/433-2017		297-2017	
C				
CAMPBELL, Juanie-JSC/AP4	713/483-4241		525-4241	713/488-8421
CAMPION, Edward-HQ/LFD-2	202/453-8400		453-8400	703/256-6373
CANRIGHT, Shelley-LaRC/154	804/865-4323		928-4323	804/595-3751
CLARY, Tawana-HQ/LFF	202/453-8315		453-8315	202/526-2083
COLELLA, Frank-JPL/180-201	818/354-7006		792-7006	818/790-1652
COREY, Raymond-KSC/PA-EAB	305/867-4444		823-4444	305/267-5790
COTTEE, Gatha-KSC/PA-PIB	305/867-7797		823-7797	305/254-3424

NAME/CENTER/MAIL CODE	OFFICE PHONE	EXT	FTS	HOME PHONE
CRISP, Amos-MSFC/CA20	205/453-0038		872-0038	205/539-5640
CRONE, Richard-GSFC/130	301/344-7206		344-7206	301/935-5021
CYWANOWICZ, Lynda-MSFC/CA20	205/453-0038		872-0038	205/837-4433
D				
DEASON, Billie-JSC/AP3	713/483-5111		525-5111	713-326-4387
DER BING, William-JSC/AP	713/483-4744		525-4744	713/481-2336
DILLER, George-KSC/PA-PIB	305/867-2468		823-2468	305/267-4040
DONAHOE, Bernard-ARC/204-12	415/694-5544		464-5544	415/366-6190
DOVE, Carter-GSFC/130	301/344-5566		344-5566	301/622-6653
DOYLE, Jim-JPL/180-200	818/354-5011		792-5011	818/246-6024
DRACHLIS, David-MSFC/CA10	205/453-0034		872-0034	205/582-0905
DRUMMOND, Jean-LaRC/115	804/865-3006		928-3006	804/722-0710
DUTCZAK, Steve-KSC/PA-EAB	305/867-4444		823-4444	305/453-0612
E				
EDDLEMAN, Terry-MSFC/CA10	205/453-0034		872-0034	205/882-2135
EDWARDS, Marilyn-LeRC/3-11	216/433-2899		297-2899	216/356-0851
ELLINGTON, Tony-HQ/LFD-8	202/453-8382		453-8382	
ELLIOTT, James-GSFC/130	301/344-6256		344-6256	703/385-1463
ELLIS, Linda-LeRC/3-11	216/433-2900		297-2900	216/779-1266
EXLER, Randee-GSFC/130	301/344-7277		344-7277	202/342-7342
F				
FENRICK, C.J.-ARC/204-12	415/694-5091		464-5091	408/738-3098
FITZPATRICK, Mary-HQ/LFF	202/453-8315		453-8315	202/543-7880
FUHRMANN, Henry-JPL/180-200	818/354-5011		792-5011	818/577-7440
FUNKHOUSER, Jim-HQ/LFF	202/453-8315		453-8315	703/323-5404
G				
GARCIA, Michael-JPL/180-205	818/354-8593		792-8593	213/258-1582
GARRETT, David-HQ/LFD-2	202/453-8400		453-8400	703/998-6910
GATES, Patricia-LaRC/496	804/865-2058		928-2058	804/838-0770
GAVER, Les-HQ/LFD-2	202/453-8372		453-8372	301/384-6125
GREEN, Joseph-KSC/PA-EAB	305/867-4444		823-4444	305/452-8067
GRIFFIN, Sheila-HQ/LFD-2	202/453-8399		453-8399	202/337-3736

NAME/CENTER/MAIL CODE	OFFICE PHONE	EXT	FTS	HOME PHONE
H				
HANCHETT, Greg-JPL/180-205	818/354-6170		792-6170	818/798-1607
HANNAN, Patricia-LeRC/7-4	216/433-2003		297-2003	
HARRIS, Hugh-KSC/PA-PIB	305/867-2468		823-2468	305/783-4421
HARRISON, Edward-KSC/PA-PIB	305/867-7819		823-7819	305/453-5168
HATHAWAY, Roger-LaRC/154	804/865-4358		928-4358	804/826-8388
HEADLEE, Joseph-HQ/LFD-8	202/453-8594		453-8594	703/451-3023
HENRY, Keith-LaRC/115	804/827-2934		928-2934	804/826-8916
HERRING, Mack-NSTL/AB-10	601/688-3341		494-3341	601/896-8528
HESS, Mark-HQ/S	202/453-1192		453-1192	202/543-6094
HIRSCHBERG, Vera-HQ/LFD-2	202/453-8368		453-8368	202/333-0977
HOLLINSHEAD, Charles-KSC/PA	305/867-2201		823-2201	305/459-1464
HOOD, James-HQ/LFD-8	202/453-8378		453-8378	202/399-8328
HOUSE, Richard-JPL/180-200	818/354-6088		792-6088	818/792-4318
HULL, Garth-ARC/204-12	415/694-5543		464-5543	415/941-3250
HULL, Harris-HQ/LFF	202/453-8321		453-8321	202/229-7199
HUNT, Curtis-MSFC/CA20	205/453-0038		872-0038	205/852-1763
HUNT, Darleen-KSC/PA-VIC	305/867-2363		823-2363	305/452-8433
HUNT, Margaret-LaRC/115	804/865-2731		928-2731	804/877-5271
J				
JACKSON, Ralph-DFRF	805/258-8381		961-3448	805/942-5427
JAFFER, Azeezaly-HQ/I	202/453-1922		453-1922	703/998-0842
JAMES, Donald-ARC/204-12	415/694-5091		464-5091	415/323-1327
JAMES, Meg-JPL/180-200	818/354-6088		792-6088	818/792-8111
JAQUA, Thomas-HQ/LFD-8	202/453-8383		453-8383	202/544-3798
JOHNSON, Frank-HQ/LF	202/453-8364		453-8364	
JONES, Carl-MSFC/CA10	205/453-0030		872-0030	205/837-3323
JONES, Marie-HQ/LFD-8	202/453-8375		453-8375	301/868-2027
K				
KEEGAN, Sarah-HQ/M	202/453-8536		453-8536	202/547-6745
KERSMAN, Norma-JSC/AP4	713-483-4241		525-4241	713/333-5344
KING, Larry-ARC/204-12	415/694-5091		464-5091	408/274-0288
KRISTOFFERSON, Karl-KSC/PA-EAB	305/867-4444		823-4444	305/267-9302
KUKOWSKI, James-HQ/E	202/453-1548		453-1548	703/620-6572

NAME/CENTER/MAIL CODE	OFFICE PHONE L	EXT	FTS	HOME PHONE
LAWRENCE, John-JSC/AP3	713/483-5111		525-5111	713/583-1669
LIEVENSE, Kimberly-JPL/180-205	818/354-0112		792-0112	818/249-8186
LITTMAN, Mark-STScI	301/338-4757		No FTS	
LOVATO, Nancy-DFRF	805/258-8381		961-3456	805/948-2957
LUNA, Florestela-JSC/AP4	713/483-4241		525-4241	713/485-3533
M				
MACHEN, Jyles-MSFC/CA01	205/453-0036		872-0036	205/536-4459
MacMILLIN, Robert-JPL/180-200	818/354-7006		792-7006	818/247-9345
MALONE, Lisa-KSC/PA-PIB	305/867-2468		823-2468	305/631-2189
MANESE, Marian-JPL/180-205	818/354-6170		792-6170	213/663-5738
MARIANETTI, Eugene-HQ/LFF	202/453-8315		453-8315	703/998-0989
MARSHALL, William-HQ/E	202/453-1548		453-1548	202/726-5286
MAUK, Larry-KSC/PA-VIC	305/867-2363		823-2363	305/453-1335
McCULLA, James-HQ/LFD-2	202/453-8398		453-8398	703/821-2236
McLANE, Patricia-JPL/180-205	818/354-5556		792-5556	818/793-3393
McNAUGHTON, Bettye-KSC/PA-PIB	305/867-7819		823-7819	305/632-1275
MEDAL, Ed-MSFC/CA10	205/453-0034		872-0034	205/883-2394
MILLINER, Joyce-WFF	804/824-3411	x579	928-5579	804/665-4703
MITCHELL, Charles-LeRC/3-11	216/433-2889		297-2889	216/243-6228
MONTI, Lisa-NSTL	601/688-3585		494-3585	601/467-4351
MOORE, Susanne-KSC/PA-VIC	305/867-2363		823-2363	305/783-2161
MOUNCE, Boyd-JSC/AP4	713/483-4241		525-4241	713/479-7171
MURRILL, Mary Beth-JPL/180-200	818/354-5011		792-5011	818/441-4168
N				
NESBITT, Stephen-JSC/AP3	713/483-5111		525-5111	713/338-2872
NEUHAUSER, Philipp-JPL/180-205	818/354-8592		792-8592	818/353-2976
O				
O'DONNELL, Franklin-JPL/180-200	818/354-5011		792-5011	714/870-1017
P				
PARKER, Louis-JSC/AP4	713/483-4241		525-4241	713/481-4372
PARKER, Maurice-LaRC/115	804/865-2934		928-2934	804/722-5837
PATNESKY, Andrew-JSC/AP3	713/483-5111		525-5111	713/353-4313
PERRY, Leon-HQ/E	202/453-1548		453-1548	301/336-5273
PETO, Mary Ann-LeRC/3-11	216/433-2902		297-2902	216/722-5447
POINDEXTER, James-JSC/AP4	713/483-4241		525-4241	713/486-4113
PRICE, Gary-LaRC/115	804/865-2932		928-2932	804/898-4198

NAME/CENTER/MAIL CODE	OFFICE PHONE	EXT	FTS	HOME PHONE
R				
RAHN, Debra-HQ/R	202/453-2754		453-2754	703/820-7096
RAY, Christopher-HQ/LFD-8	202/453-8599		453-8599	301/530-4653
RECKNAGEL, Charles-GSFC/130	301/344-5565		344-5565	202/363-4275
REDMOND, Charles-HQ/M	202/453-8536		453-8536	202/363-3184
REINERTSON, Leslie-DFRF	805/258-8381		961-3459	805/948-3164
RICHMAN, Arnold-KSC/PA-VIC	305/867-2363		823-2363	305/783-1023
RILEY, John-JSC/AP3	713/483-5111		525-5111	713/471-0624
ROBBINS, William-JSC/AP3	713/483-5111		525-5111	713/474-3423
RODRIGUEZ, Ivelisse-HQ/LFD-8	202/453-8596		453-8596	202/223-6628
ROSS, Janet-JSC/AP3	713-483-5111		525-5111	713/486-5406
RUHL, Robert-MSFC/CA10	205/453-0034		872-0034	205/536-4459
S				
SANDY, Mary-LaRC/154	804/865-3159		928-3159	804/874-2759
SCHULMAN, Robert-HQ/LFF	202/453-8315		453-8315	301/933-1909
SCHWARTZ, Barbara-JSC/AP3	713/483-5111		525-5111	713/474-4769
SELBY, Barbara-HQ/LFD-2	202/453-8400		453-8400	301/552-1917
SEUFERT, Ellen-GSFC/130	301/344-8957		344-8957	301/577-4615
SHAW, John-LeRC/3-11	216/433-2890		297-2890	216/749-6664
SHEA-KING, Andrea-KSC/PA-PIB	305/867-2468		823-2468	305/799-0412
SHULTZ, Betty-JPL/180-205	818/354-6802		792-6802	818/351-8403
SIEBEL, Mathias-MAF/SA39	504/255-2601		685-2601	504/889-0974
SMITH, Benjamin-LaRC/154	804/865-3966		928-3966	804/865-8080
STALL, Harold-JSC/AP	713/483-3671		525-3671	713/333-2260
STANLEY, Diane-ARC/204-12	415/694-5091		464-5091	415/326-0774
STEADLY, Diane-LeRC/7-4	216/433-2016		297-2016	
SUIT, Ann-LaRC/154	804/865-3967		928-3967	804/229-9338
T				
TAVARES, Ronald-HQ/LFF	202/453-8315		453-8315	703/521-1311
TAYLOR, John-MSFC/CA01	205/453-0031		872-0031	205/881-7843
THAMES, Evelyn-HQ/LFF	202/453-8315		453-8315	301/843-6412
THOMAS, David-GSFC/130	301/344-8956		344-8956	301/736-8545
TIPPETT, Mary Jo-KSC/PA	305/867-2638		823-2638	305/452-9383
TODD, Gloria-HQ/LFF	202/453-8319		453-8319	
TYSON, Tim-MSFC/CA20	205/453-0038		872-0038	205/881-3640

NAME/CENTER/MAIL CODE	OFFICE PHONE	EXT	FTS	HOME PHONE
V				
VAN DER WOUDE, Jurrie-JPL/180-200	818/354-5011		792-5011	
VARNES, Mitch-KSC/PA-VIC	305/867-2363		823-2363	305/773-7775
VOCK NEIHOUSE, Leslie-KSC/PA-PIB	305/867-7819		823-7819	305/632-0133
W				
WAGGONER, Miles-HQ/LI	202/453-8455		453-8455	202/543-7880
WAITE, J.C.-JSC/AP4	713/483-4241		525-4241	713/332-2983
WALLER, Peter-ARC/204/12	415/694-5091		464-5091	415-493-9406
WALSH, John-HQ/LFD-8	202/453-2595		453-2595	301/243-2342
WALTON, Tommie-JSC/AP4	713/483-4241		525-4241	713/524-7659
WARD, Douglas-JSC/AP3	713/483-5111		525-5111	713/326-1808
WASHINGTON, Althea-HQ/LFD-8	202/453-8373		453-8373	202/882-0152
WEATHERSPOON, Mary-HQ/LFF	202/453-8316		453-8316	202/723-2123
WEBB, Myron-NSTL/AB-10	601/688-3341		494-3341	601/832-8083
WELCH, Brian-JSC/AP3	713/483-5111		525-5111	713/480-5194
WELLS, Libby-KSC/PA	305/867-2638		823-2638	305/453-3110
WHITE, Terry-JSC/AP3	713/483-5111		525-5111	713/332-5177
WOLFE, Janet-GSFC/130	301/344-6255		344-6255	703/521-2445
WOOD, Alan-JPL/180-200	818/354-5011		792-5011	818/355-1814
Y				
YANOW, Gil-JPL/180-205	818/354-6916		792-6916	714/861-4202
YOUNG, Dick-KSC/PA-PIB	305/867-2468		823-2468	305/452-5141

INFORMATION SOURCES

NASA Public Affairs offers a variety of information services to the media. You may find them valuable for research work or keeping abreast of developing news events.

Electronic Information Distribution

NASA news releases and other information including Space Shuttle status reports, Shuttle manifest, current mission information, public affairs contacts and a calendar of events, is electronically available through ITT Dialcom. For access to NASA NEWS through this system, contact Jim Hawley, ITT Dialcom, Inc., 202/488-0550.

NASA Select TV-Audio System

The NASA-wide TV-audio release system is a valuable tool for media covering the agency's activities. During Space Shuttle missions, the system provides realtime air-to-ground communications between the orbiter and mission control; public affairs launch, mission and landing commentary; and many related news briefings. The system also is used for other NASA briefings and events. For most press briefings, the system is interactive (one-way video, two-way audio) between centers so that media covering an event from one center may ask questions at a briefing originating from another.

NASA Select coverage of Shuttle flights and other major news events are carried on a full satellite transponder as follows:

Satcom F-2R, transponder 13, C-band
Orbital position: 72 degrees W. longitude
Frequency: 3954.5 MHz
Vertical polarization
Audio monaural: 6.8 MHz

NASA Select video also is available at the AT&T Switching Center, Television

Operation Control (TVOC), Washington, D.C., and the following NASA centers:

NASA Headquarters
Ames Research Center
Dryden Flight Research Facility
Jet Propulsion Laboratory
Johnson Space Center
Kennedy Space Center
Langley Research Center
Marshall Space Flight Center

For Space Shuttle missions, updated NASA Select TV schedules may be obtained by calling COMSTOR, 713/280-8711. COMSTOR is a computer data base service requiring the use of a telephone modem.

For additional information concerning NASA Select programming, contact Les Gaver, NASA Headquarters, 202/453-8372.

Television

NASA Headquarters produces a 14 1/2-minute "magazine format" videotape quarterly called "Aeronautics and Space Report." The program is available to TV stations via the Westar 4 satellite through the services of PUBSAT. It also is uplinked to NASA field centers via the NASA Select TV system. As an aid to broadcasters wishing to excerpt portions of this videotape for news programming, both audio channels are used. Channel 1 audio carries a completely mixed track with narration, music, actualities and effects. Channel 2 audio has effects and actualities only.

To downlink this program from Westar 4, television stations should contact Joe Headlee, NASA Headquarters, 202/453-8594. Stations are notified in advance by PUBSAT when to expect a satellite feed with information on the current topics. Scripts are mailed out approximately 2 weeks before the satellite uplink.

Radio

NASA produces a weekly 4-1/2-minute program called the "The Space Story." These topical radio programs feature astronauts, scientists and other people involved in NASA's ongoing research efforts.

"The Space Story" is uplinked on the ABC digital satellite system Thursdays at 4 p.m. and via the NASA Select satellite system Fridays at 2 p.m. (both times Eastern).

Stations not serviced by the digital satellite system can receive the program by contacting Ivelisse Rodriguez, NASA Headquarters, 202/453-8596.

Cassettes or reel-to-reel NASA audio highlight tapes are available from: Lion Recording Services, 1905 Fairview Ave. NE, Washington, D.C. 20002 (202/832-7887).

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NASA Broadcast News Service

This audio news service makes it possible for stations to receive interview material with the astronauts prior to Space Shuttle missions. This telephone feed also is a source of interview actualities about breaking news stories as they occur. Updated information is distributed via ABC closed-circuit announcements, press releases and the audio sudden notice list. To access the NASA Broadcast News Service, dial 202/269-6572.

Several NASA centers also provide up-to-date reports on aeronautics and space activities through automated telephone systems. Check with the cognizant center for the availability of this service during major NASA events. The center codaphone services are:

Dryden	805/258-4464
Goddard	301/344-0890
Johnson	713/483-6111
Kennedy	305/867-2525
Marshall	205/453-2803

Status reports during Space Shuttle missions are available by calling the National Space Institute Hotline at 202/484-3802.

Motion Pictures

Films describing NASA research and development programs in space and aeronautics may be borrowed from one of seven regional film libraries. While there is no charge, borrowers must pay the cost of return postage and insurance. Regional film libraries are maintained at:

Ames Research Center
Goddard Space Flight Center
Johnson Space Center
Kennedy Space Center
Langley Research Center
Lewis Research Center
Marshall Space Flight Center

Still Photography

NASA field centers maintain photo files on current projects and those of the recent past. Older files are periodically purged to make way for newer material. The Broadcast and Audio Visual Branch, NASA Headquarters, has files covering projects and missions extending back to the agency's creation in 1958. Researchers seeking early or general material may save time by beginning their search at Headquarters.